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**Plastisol-like compsns. based on polyethylene (co)polymers - include reactive plasticiser component contg. long chain hydrocarbon residues**

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#### Patent Family

Patent Number	Kind	Date	Application Number	Kind	Date	Week	Type
DE 4435803	A1	19960411	DE 4435803	A	19941006	199620	B
WO 9611231	A2	19960418	WO 95EP3858	A	19950929	199621	
ZA 9508409	A	19960626	ZA 958409	A	19951005	199631	
WO 9611231	A3	19960613	WO 95EP3858	A	19950929	199633	

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#### Patent Details

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#### Abstract:

DE 4435803 A

A polymer-based mixt. having plastisol-like characteristics, comprising synthetic polymeric cpds. (I) as disperse phase mixed with a low molecular plasticiser component (II) that is liq. and/or solid at room temp. and which before heating the mixt. of (I) and (II) to film-forming temp. is a non-solvent for the polymer, and when heated to the film-forming temp. and above forms a storage-stable plastigel, whereby the (I) is chosen from polyethylene and copolymers of ethylene with propylene and/or adhesion-promoting comonomers chosen from low olefinically unsaturated acids, corresponding alcohols and/or their derivs.; and the plasticiser phase (II) consists of or contains reactive components which at temps. below the film-forming temp. are storage stable and non-solvents for the polymer phase and which at film-forming temps. are liq., and which upon raising the temp. at least to the plastigel-forming range, can react with an increase in the size of the mol., wherein the plasticiser components contain at least a predominant proportion of straight or branched chain 6-30 C hydrocarbon residues.

USE - Used as a replacement for PVC plastisols e.g. in the automobile ind., esp. as underbody protective coatings; as cable fillings and sealants; as interior and exterior coatings for tubes and pipelines; as adhesives for bonnet (hood) linings; as seals for vessel closures such as crown stoppers; as seam sealants in food packaging cans; as carpet backing materials; as coatings for textiles; as adhesive in laminated glass panes, etc.

ADVANTAGE - The components of the plastisol-like can be selected such that when heated to above the film forming temp., the reactive plasticiser components react e.g. by polymerisation to give a plastigel in the form of an interpenetrating polymer network (IPN) which can have excellent adhesion to the substrate. The gelled prods. have a good colour, good mechanical properties and a non-porous structure.

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